

## **CLAIMS**

1. A golf club head, comprising: a club head having a face wall with a ball striking surface and a face, a perimeter wall surrounding the face wall and attached to the perimeter of the face wall, and a unit cell structure formed separately from the face wall positioned immediately behind and either engaging or closely spaced from the rear surface of the face wall.

2. A golf club head as defined in Claim 1, wherein the unit cellular structure is generally planar and has a forward surface in engagement with the rear surface of the face wall.

3. A golf club head as defined in Claim 1, the unit cellular structure is generally planar and inward surface spaced rearwardly from the rear surface the face wall less than 0.100 inches.

4. A golf club head as defined in Claim 1, wherein the unit cellular structure is open over 60 percent of the area of the unit cellular structure.

1               5. A golf club head as defined in Claim 1,  
2 wherein the unit cellular structure includes a plurality of  
3 open cells surrounded by other open cells.

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5               6. A golf club head as defined in Claim 1,  
6 wherein the unit cellular structure includes a plurality of  
7 ribs intersected by another plurality of ribs with open  
8 spaced between the ribs.

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10               7. A golf club head as defined in Claim 1,  
11 wherein the unit cellular structure includes a plurality of  
12 ribs with open spaces between the ribs, at least some of the  
13 ribs having a "T" shaped cross section defined by a first  
14 bar portion and a second bar portion integral with the first  
15 bar portion at approximately the center of the first bar  
16 portion and perpendicular thereto, said second bar portion  
17 facing forwardly toward the rear surface of the face wall.

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19               8. A golf club head, comprising: a club head  
20 body having a face wall with a ball striking surface and a  
21 rear surface, a perimeter wall surrounding the face wall and  
22 attached to the perimeter of the face wall, and a unit cel-  
23 lular structure in the club head body for reinforcing the  
24 face wall and minimizing face wall failure under ball impact  
25 including a generally planar cellular structure formed  
26 separately from the face wall positioned behind and either

1 in engagement or near the rear surface of the face wall,  
2 said cellular structure having a forward surface either in  
3 engagement with or spaced closely enough from the rear sur-  
4 face of the face wall so the rear surface of the face wall  
5 will engage and be supported by the cellular structure at  
6 club head speeds under 110 mph.

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8               9. A golf club head as defined in Claim 8,  
9 wherein the unit cellular structure is generally planar and  
10 has a forward surface in engagement with the rear surface of  
11 the face wall.

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13               10. A golf club head as defined in Claim 8,  
14 wherein the unit cellular structure is generally planar and  
15 has a forward surface spaced rearwardly from the rear sur-  
16 face of the face wall less than 0.100 inches.

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18               11. A golf club head as defined in Claim 8,  
19 wherein the unit cellular structure includes a plurality of  
20 ribs intersected by another plurality of ribs with open  
21 spaced between the ribs.

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23               12. A golf club head, comprising: a club head  
24 body having a face wall with a ball striking surface and a  
25 rear surface, a perimeter wall surrounding the face wall and  
26 attached to the perimeter of the face wall, and a unit cel-

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1 lular structure in the club head body for reinforcing the  
2 face wall and minimizing face wall failure under ball impact  
3 including a generally planar cellular structure formed  
4 separately from the face wall positioned behind and either  
5 in engagement or near the rear surface of the face wall,  
6 said cellular structure having a forward surface either in  
7 engagement with or spaced closely enough from the rear sur-  
8 face of the face wall so the rear surface of the face wall  
9 will engage and be supported by the cellular structure at  
10 club head speeds under 110 mph., said cellular structure  
11 also including a plurality of ribs intersected by another  
12 plurality of ribs with open spaces between the ribs, and at  
13 least some of the ribs having a "T" shaped cross section  
14 defined by a first bar portion and a second bar portion in-  
15 tegral with the first bar portion at approximately the cen-  
16 ter of the first bar portion and perpendicular thereto, said  
17 second bar portion facing forwardly toward the rear surface  
18 of the face wall.

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